



SCIENCE بنك الأسئلة



مراجعات النخبة



**Mid-Term
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**Primary
first Term**



**Prepared by:
Mrs/Menna Hussein**



Trust Academy Online



Question 1

choose the correct answer

Unit 1
Concept 1.1

- 1 The cell controls of water balance by passing it through.....
(a) **cell wall** (b) **cell membrane** (c) **nucleus**
- 2 The cell takes the materials it needs and uses them to get.....
(a) **waste** (b) **energy** (c) **matter**
- 3 contains only one cell.
(a) **Human body** (b) **Plants** (c) **Bacteria**
- 4 Cells need..... and..... to grow and live
(a) **Carbon dioxide – food**
(b) **Water – wastes**
(c) **Oxygen – food**
- 5 Which of the following is the smallest system in the human body?
(a) **System** (b) **Tissue** (c) **Cell**
- 6 is considered the building unit of the bodies of living organisms
(a) **The cell** (b) **Oxygen** (c) **Cell membrane**
- 7 The structure which is present in plant cell and not in animal cell.....
(a) **cell membrane** (b) **cell wall** (c) **nucleus**
- 8 Which of the following cells is the smallest in size?
(a) **plant cells** (b) **Bacterial cells** (c) **Unfertilized bird egg**
- 9 Growth of a living organism is result from increasing the..... of the cell
(a) **length** (b) **size** (c) **number**
- 10 We can see the cell ofwithout using microscope
(a) **bird's egg** (b) **human** (c) **plant**





- 11 Bacteria are considered organisms...
(a) **multicellular** (b) **acellular** (c) **unicellular**
- 12 The. surrounds each cell, protects it and regulates what can enter it.
(a) **Cytoplasm** (b) **mitochondria** (c) **Cell membrane**
- 13 Animal bodies contain a variety of cells, such as.....
(a) **muscle cells** (b) **Photosynthesis** (c) **cell wall**
- 14 A group of organs working together is.....
(a) **systems** (b) **Tissues** (c) **Cells**
- 15 The.....is used to see cell components.
(a) **microscope** (b) **telescope** (c) **lens**
- 16 All the following are from parts of microscope, except.....
(a) **eyepiece** (b) **stage** (c) **coverslip**
- 17 The organisms made up of only one cell such as.....
(a) **bacteria** (b) **plant** (c) **animal**
- 18 The organisms made up of more than one cell such as.....
(a) **plant** (b) **bacteria** (c) **unfertilized bird egg**
- 19 is inside the membrane and supports the organelles.
(a) **plasma membrane** (b) **Cytoplasm** (c) **nucleus**
- 20 The. surrounds plant cells to give them a definite shape.
(a) **Cell wall** (b) **Chloroplasts** (c) **Mitochondria**
- 21 The bodies of animals are characterized by the presence of special structures that help them keep their shape, such as.
(a) **Skin** (b) **Bones** (c) **Intestines**





- 22 One of the components of a cell that similar to an electrical power station is.....
(a) **Mitochondria** (b) **Cytoplasm** (c) **Chloroplasts**
- 23 One of the components of the cell prepares and packages materials within the cell and transports them out of the cell is.
(a) **vacuole** (b) **Golgi apparatus** (c) **Mitochondria**
- 24 contains the pigment chlorophyll, which helps it absorb the energy of sunlight to carry out the photosynthesis process.
(a) **Nucleus** (b) **Chloroplast** (c) **Mitochondria**
- 25 is considered the main control center in the cell.
(a) **Nucleus** (b) **Chloroplast** (c) **Golgi apparatus**
- 26 A type of cell that contains a cell wall and Chloroplast is..
(a) **Animal cell** (b) **Plant cell** (c) **Bacteria**
- 27 The animal cell cannot make photosynthesis process, because it doesn't have a.....
(a) **Cell membrane** (b) **chloroplasts** (c) **vacuole**
- 28 Muscle cells need to be shaped like fibers.
(a) **Short** (b) **Long** (c) **Fatty**
- 29is not consider as voluntary muscle
(a) **upper arm** (b) **Heart** (c) **neck**
- 30 The..... system receives nervous signals from the body's organs, such as the eye
(a) **Nervous** (b) **Muscular** (c) **Respiratory**
- 31 The heart is one of the organs of. system
(a) **Nervous** (b) **Circulatory** (c) **digestive**

Unit 1
Concept 1.2





- 32 When feeling nervous or exposed to a dangerous situation,
- (a) Each system works separately
(b) The systems work together in an integrated system
(c) The systems do not interact with each other
- 33 The process of muscle contraction leads to.....its length.
- (a) decrease (b) increase (c) no change
- 34 The..... sends instructions to muscles
- (a) Heart (b) brain (c) arm
- 35 Performing simple movements such as pick up a glass of water over the table. What systems in the human body work together to perform this task?
- (a) nervous and circulatory
(b) nervous and musculoskeletal
(c) nervous, circulatory and musculoskeletal
- 36 The group of similar cells work together to form.....
- (a) organ (b) tissue (c) system
- 37 secretes enzymes to increase the chemical breakdown of food.
- (a) stomach (b) large intestine (c) kidney
- 38 The liver stores sugar and converts it into
- (a) fat (b) starch (c) glycogen
- 39 The endocrine glands secrete..... to help the body perform its function.
- (a) hormones (b) salts (c) proteins
- 40 The process of absorbing nutrients begins through the capillaries in the
- (a) stomach (b) large intestine (c) small intestine
- 41 When two muscles work together to make a movement, one of these muscles contracts while the other.....
- (a) moves (b) contract (c) relax





42. Skeletal muscles include the muscles of.....

- (a) **diaphragm** (b) **intestines** (c) **neck**

43 When feeling danger...heartbeats

- (a) **decrease** (b) **stabilize** (c) **increase**

44 All of the following are waste materials produced by body cells through their membranes EXCEPT.....

- (a) **Urine** (b) **Sweat** (c) **Feces**

45 Nephrons are.....

- (a) **Vessels that hold urine before it exits the body**
(b) **The place where urine exits the body**
(c) **Microscopic units that filter blood and remove waste from the body**

46 The system responsible for purifying blood and filtering waste from the body is the.....

- (a) **Circulatory** (b) **Respiratory** (c) **Urinary**

47 The organ responsible for extracting excess water and salts in the form of sweat is

- (a) **Kidney** (b) **Lung** (c) **Skin**

48 The kidney is the main organ of thesystem

- (a) **Nervous** (b) **Respiratory** (c) **Urinary**

49 The tools that opens and closes the electric circuit is called.....

- (a) **Wires** (b) **switch**
(c) **light bulb** (d) **Battery**

Unit 1
Concept 1.3

50from electrical insulators

- (a) **iron** (b) **aluminum**
(c) **wood** (d) **copper**





- 51 The..... is used to limit the flow of electrons in an electrical circuit.
(a) Resistor (b) Switch
(c) Battery (d) bulb
- 52 The electrical wires are coated with a layer of.....
(a) Iron (b) Aluminum
(c) Plastic (d) nickel
- 53 The turbine uses the power of wind or water to generateenergy to operate electrical generators
(a) Magnetism (b) Mechanical
(c) Solar (d) Chemical
- 54 Magnets can be made from.....
(a) Copper (b) Glass
(c) Iron (d) Plastic
- 55 Theof the objects affects the force of gravity
(a) shape (b) color
(c) mass (d) volume
- 56 The factors on which gravitational force depends are.....
(a) mass and shape (b) size and shape
(c) mass and volume (d) distance and mass
- 57 The electrical insulating materials include.....
(a) rubber (b) iron
(c) copper (d) aluminum
- 58 When a piece of aluminum is replaced by a piece of wood in an electrical circuit, this causes.....
(a) current flow. (b) open the circuit
(c) close the circuit (d) lighting the lamp



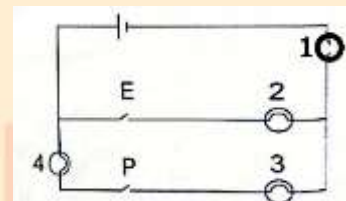


59 From the conditions for lighting a lamp in an electrical circuit is.....

- (a) the presence of a battery in the circuit only
- (b) the key is turned on only.
- (c) there is no insulating material in the circuit path only
- (d) all the previous answers.

60 Which lamps light up when switch (p) is closed in the opposite electrical circuit?.....

- (a) (3-4) only
- (b) (1-3-4).
- (c) (1-2) only
- (d) (1-2-3)



61is a magnetic material that is attracted to the magnet.

- (a) Paper
- (b) Wood
- (c) Nikel
- (d) Copper

62 The electric circuit contains a..... which is responsible for opening and closing the circuit

- (a) Battery
- (b) Switch
- (c) Lamp
- (d) generator

63is a material that cannot allow electric current to flow through

- (a) Iron
- (b) Copper
- (c) Plastic
- (d) Aluminum

64 The molecule is composed of very small particles called.....

- (a) Cells
- (b) Atoms
- (c) Mixtures
- (d) compounds

Unit 2
Concept 2.1

65 All of these substances are solids, except.....

- (a) Pen
- (b) Table
- (c) Soup
- (d) snow



- 66 Both..... and..... are examples of liquid matter
(a) water-milk (b) water-wood
(c) water copper (d) oil - paper
- 67 Particles of all the following substances have a lot of energy, except.....
(a) Oxygen (b) carbon dioxide
(c) water vapor (d) glass
- 68 Thermal energy affects..... and of a matter
(a) temperature – state (b) temperature – color
(c) color-taste (d) color-smell
- 69 The energy is related to the motion of particles of a matter
(a) Chemical (b) Potential
(c) Light (d) thermal
- 70 Heat transfers from.....
(a) a cold object to an object that has the same temperature.
(b) a hot object to an object that has the same temperature.
(c) a cold object to a hot object.
(d) a hot object to a cold object
- 71 Temperature is a measure of theenergy of molecules of a substance
(a) Kinetic (b) Potential
(c) Light (d) chemical
- 72 When the molecules of a substance gain thermal energy, their total kinetic energy..... and the temperature of the substance.....
(a) decreases - decreases (b) increases - increases
(c) decreases - increases (d) increases - decreases
- 73 Melting process is the change of substance from state to..... state
(a) solid-liquid (b) liquid - gas
(c) gas - liquid (d) liquid - solid





74 Evaporation process is the change of substance from state tostate

- (a) solid-liquid (b) liquid - gas
(c) gas - liquid (d) liquid - solid

75 The transformation of gas into liquid is called.....and the reverse process is called.....

- (a) melting – evaporation (b) evaporation – melting
(c) evaporation - condensation (d) condensation - evaporation

76 The state(s) of matter with the greatest amount of energy is/are.....

- (a) Solid (b) Liquid
(c) gas (d) Solid and liquid

77 What molecules have the lowest kinetic energy when it is in the form of.....

- (a) ice (b) water drops
(c) water vapor (d) steam

78 Changing ice into water followed by changing water into steam shows two different processes which are and.....

- (a) freezing – condensation (b) evaporation - condensation
(c) melting – freezing (d) melting - evaporation

79 Objects with more thermal energy have.....kinetic energy

- (a) More (b) Less
(c) the same (d) no

Unit 2
Concept 2.2

80 If you want to design a product which conducts heat well which material will you think of?

- (a) Wood (b) Plastic
(c) Foam (d) Metal

81is the transfer of heat due to the movement of a liquid or gas

- (a) Radiation (b) Conduction
(c) Freezing (d) Convection





- 82 Which of the following may not be a source of thermal energy?
(a) **Small oven** (b) **The Sun**
(c) **Moon** (d) **The heater**
- 83 Heat is transferred by convection in the molecules of the following substances, except.....
(a) **milk** (b) **water**
(c) **air** (d) **iron**
- 84 Sunlight and the heat of the Sun reach Earth by.....
(a) **conduction** (b) **radiation**
(c) **convection** (d) **a, c**
- 85 Heat is transferred through solids by.....
(a) **radiation only** (b) **conduction and convection**
(c) **conduction only** (d) **radiation and convection**
- 86 Meteorologists are scientists who study.....
(a) **weather** (b) **rocks**
(c) **water** (d) **space**
- 87 To make clothes we can use.....
(a) **steel** (b) **concrete**
(c) **hard fabric** (d) **flexible fabric**
- 88 Railroad tracks are made up of.....
(a) **iron** (b) **plastic**
(c) **coal** (d) **glass**
- 89 All the following are properties of steel,
(a) **it is a mixture of rock and sand**
(b) **it is flexible material**
(c) **it is a mixture of iron and other elements.**
(d) **it lasts for a long time**





Question 2

Complete the following sentences

Unit 1
Concept 1.1

- 1) Living organisms grow and reproduce by increasingtheir cells
- 2) The cells ofare smaller than plant and animal cells
- 3) An unfertilized bird egg contains numberegg cell
- 4) Thewas the first person to use the word cell.
- 5) The Cell wall of plant cell made of.....
- 6) The specialized types of plant cell performprocess
- 7) The insects have a hard, shell-like covering called.....
- 8) The green color in a plant cell is due to it contains the pigment.....
- 9) when examining transparent, colorless cells under a microscope we used
.....

Unit 1
Concept 1.2

- 10) Thepumps more blood to feed the muscles required for movement
- 11) Thesends instructions to the muscles.
- 12) To pick up a glass of water, thefirst sees the location of the book.
- 13) Hormones transmitted to all parts of the body by
- 14) During inhalation the diaphragm muscle
- 15) Glucose sugar is stored byandin the form of animal starch
- 16) Cell wall is made up ofgives the plant cell its definite
- 17) The presence ofpigment gives most plants their green color





- 18) Chlorophyll absorbs the energy ofallow the plant makes its own food by.....process
- 19) Cells of animals don't have definite shapes due to the absence of
- 20) The body of a bird hasthat give this bird its definite shape
- 21) Stomach contains anand somethat lead to more food breakdown.
- 22) Plant cell contains one bigwhich stores nutrients, water and waste materials, while animal cell contains many smallwhich do the same function as in plant cell
- 23) The muscles of heart are calledmuscles and they are considered as a type ofmuscles.
- 24) Endocrine system secretesto control the body temperature.
- 25) When you push the door out with your hand, the muscles in the back of your upper arm
- 26) In dangerous situations, the brain sends a signal to yourto contract and face the danger
- 27) Researchers work to develop the artificial pancreas to pump directly inside the body of diabetics.
- 28) Pancreas is the organ that belongs to endocrine system and helps thesystem in digestion process

Unit1
Concept 1.3

- 29) By increasing the distance between objects and the Earth's surface, the (.....) .force (.....)
- 30) Magnetism is an attraction or (.....) force , while gravity is(.....) force only
- 31) All objects are pulled toward Earth's (.....) due to (.....) Force of the earth
- 32) Gravity attracts any object that has (.....)
- 33) Materials are classified according to their ability to be attracted to the magnet into (.....) Materials and (.....-.....) Materials
- 34) Mechanical energy can be changed into(.....) energy in the generator





- 35) The electric current can transmit in a closed path called an (.....)
- 36) The tool that opens and closes the electric circuit is called (.....)
- 37) There are materials known as(.....) that allow electrons to flow through them such as(.....) and (.....)
- 38) The electric current causes(.....) in the human body as it contains (.....) that is a good conductor of electricity
- 39) Some materials are called (.....) because they don't allow electric current to flow through them like (.....) and (.....)
- 40) Rubber is an electric (.....) , while copper is an electric(.....)
- 41) Electric circuits in houses are connected in (.....) way
- 42) The heart has a natural (.....) which causing the heart to contract
- 43) To build a pacemaker (.....) , an insulated electric wire and(.....) are needed
- 44) Electric wires are coated by (.....) as it is an electric insulator
- 45) By increasing the number of loops in the coil, and moving a magnet inside it, the amount of generated electric current (.....)
- 46) A moving magnet inside a coiled wire can generate (.....)
- 47) Gravity attracts any object that has (.....)
- 48) Wind turbines need (.....) to produce electricity
- 49) Magnet can be made of (.....)
- 50) Generators convert mechanical energy into (.....) energy
- 51) The pattern that the iron filings make near the magnet is the outline of its (.....)
- 52) Electric energy transfers to the devices that are powered by electricity through (.....)





- 53) Molecule is composed of a group of (.....) bound together
- 54) Particles of (.....) move very fast, so they have the most (.....) energy
- 55) Thermal energy of a substance is the total sum of (.....) energy of its molecules and atoms
- 56) Thermal energy transfers from one substance to another if they have (.....) Temperatures
- 57) The process in which liquid changes into solid is called (.....) process, and the reverse process is called (.....) process
- 58) Matter can change from liquid state to (.....) state at low temperatures while it can change into (.....) state at high temperatures.
- 59) When the force that holds the molecules (.....) they vibrate faster, and when this force (.....) they vibrate slower
- 60) Molecules of liquid matter can move faster than molecules of(.....) matter and slower than molecules of (.....) matter
- 61) As temperature(.....) the kinetic energy of molecules increases
- 62) When we keep water inside the freezer, the state of water changes from liquid to (.....) state
- 63) A drop of food coloring added to a hot cup of water will spread out(.....) Than in cold water.
- 64) Changing of matter from(.....) state to(.....) state is called evaporation.
- 65) Conduction occurs with objects that are (.....))
- 66) Metal, such as (.....) are good conductors.
- 67) A metal doorknob feels (.....) than the wooden door it is on
- 68) When a substance changes state, the mass of the substance (.....)
- 69) Some materials prevent heat from being transferred, such (.....)
- 70) Thermal energy transfers from one place to another by(.....,.....) and (.....)





- 71) (.....and.....) affect the rate at which heat is transferred.
- 72) Materials that allow heat to travel freely through them are called (.....)
- 73) Hot food continues to lose heat until its temperature becomes(.....)the temperature of the air surrounding it.
- 74) Temperature is a measurement of the energy of (.....) molecules of matter

Question 3

Put (true) or (false) answers

Unit1
Concept 1.1

- | | | |
|-----|--|-----|
| 1) | The number of cells is similar in plants and animals | () |
| 2) | Each cell is surrounded by a plasma membrane that protects it and regulates what can enter | () |
| 3) | Tissue are made up of a group of organs. | () |
| 4) | Human's red blood cells contain a nucleus. | () |
| 5) | New cells come from existing cells. | () |
| 6) | All cells have a cell wall. | () |
| 7) | One of the functions of the endoplasmic reticulum is helping in assembling proteins. | () |
| 8) | Plant cells are similar to animal cell in the presence of a nucleus. | () |
| 9) | Every plant cell has a cell wall and therefore does not need a cell membrane. | () |
| 10) | Animals can make their own food because of the presence of chloroplasts inside their cells. | () |
| 11) | The cell nucleus is responsible for cell division | () |
| 12) | The size of the vacuole differs between the plant cell and the animal cell. It is larger in the animal cell. | () |
| 13) | The plant cell is distinguished from the animal cell by the presence of chloroplasts and a cell wall. | () |





14)	An animal cell is similar to a plant cell in shape and structure	()
15)	The brain pumps more blood to muscles	()
16)	The two arms move due to contraction and relaxation muscles	()
17)	We can control all our muscles	()
18)	The diaphragm muscle contracts when air enters the two lungs.	()
19)	The digestion process begins in the stomach and ends in the small intestine	()
20)	The body's systems work together	()
21)	Undigested food is stored in the small intestine until it is expelled	()
22)	Involuntary muscles move automatically, their movement can't be controlled	()
23)	When the diaphragm muscle contracts, the air is expelled out from the lungs	()
24)	The circulatory system transports only hormones to all body parts	()
25)	We can see the examined sample in bigger size when using the high-power objective lens.	()
26)	Bacteria and horse are considered as multicellular organisms.	()
27)	The human body contains about 40 million cells.	()
28)	Chloroplasts are found in the cells of banana plant leaves	()
29)	The cells of monkey are surrounded by cell wall from outside	()
30)	Nucleus is found in the center of most cells	()
31)	All cell parts which are found inside the cell are floating in cytoplasm.	()

Unit1
Concept 1.2





32)	Selective permeability feature takes place through the cell wall	()
33)	Cell wall surrounds the cell membrane of animal cells	()
34)	There is one big vacuole in the cell of onion plant	()
35)	Chlorophyll is responsible for absorbing the energy of sunlight to make the food of plants	()
36)	The green color of plants is due to the presence of vacuoles in their cells.	()
37)	There are many small vacuoles in the cells of a bird	()
38)	Exoskeleton gives some insects their shapes	()
39)	Cells of human don't have definite shape due to the absence of cell membrane	()
40)	The horse can make its own food due to the presence of chloroplasts in its cells	()
41)	Cells are very large as the diameter of animal cell is about 0.001 cm	()
42)	The 3D microscope can help doctors to treat cancer disease.	()
43)	All systems in your body work together in an integrated way	()
44)	Blood cells and proteins pass through nephrons	()
45)	The digestive system is involved in the excretion process	()
46)	The skin is not considered an excretory organ in the body	()
47)	Metallic spoon from conductors	()
48)	When placing an insulator in the electrical circuit Electricity flows.	()
49)	Electrical resistance is found in some devices, such as electric stoves.	()

Unit1
Concept 1.3





50)	The house electrical circuit is connected in parallel.	()
51)	An electric current is generated when a static magnet is placed inside a coil.	()
52)	Electricity is considered a form of energy	()
53)	When a light bulb connected in series burns out, all the other of the light bulbs are turned off	()
54)	The switch is the source of electricity in an electric circuit	()
55)	The magnet attracts all materials	()
56)	An electric shock happens when touching non- insulated wire that an electric current flows through	()
57)	Magnetism is an attraction or repulsion force, while gravity is a repulsion force only	()
58)	The electric devices in houses are connected in series circuits	()
59)	The artificial pacemaker should contain a battery to do its function	()
60)	Magnets can be made of iron.	()
61)	In the series circuits, the electric current can flow in different branches	()
62)	The natural pacemaker inside the heart produces electrical currents to make it contracts.	()
63)	The magnet has a force called magnetism	()
64)	The thermostat in a refrigerator contains an automatic switch	()
65)	Cobalt is an example of magnetic materials.	()
66)	The natural pacemaker inside our heart produces electrical currents to make it stops	()
67)	Matter can be changed from one state to another	()

Unit2
Concept 2.1



68)	Glass can be melted at very low temperatures.	()
69)	All matter contain thermal energy	()
70)	The movement of particles within an object is used to describe the thermal energy.	()
71)	Substances in gas form have the least thermal energy	()
72)	All forms of matter are made of particles that are in a state of motion	()
73)	Gases have variable shape and volume.	()
74)	Heat flows from a hotter substance to a colder substance	()
75)	If you hold a hot cup of tea with your hand, heat transfers from your hand to the cup	()
76)	Molecules of solids move faster than molecules of liquids	()
77)	By increasing the thermal energy of the molecules of matter, the force that holds these molecules increases	()
78)	The transformation of solid to liquid is called melting and the reverse process is called freezing	()
79)	When the temperature of a matter increases, its molecules move slower	()
80)	Hot water molecules have more kinetic energy than cold water	()
81)	Food coloring (dye) spreads out in cold water faster than in hot water	()
82)	Temperature is a measure of the average kinetic energy of the molecules of a matter	()
83)	By decreasing the thermal energy, the kinetic energy increases	()
84)	Kinetic energy is the energy of motion	()
85)	We can measure the temperature by using thermometers	()





86)	Thermal energy transfer can occur in only two ways.	()
87)	Sunlight and heat reaching Earth is an example of thermal radiation.	()
88)	The final temperature is greater than the temperature of two bodies in contact	()
89)	Thermal energy is destroyed when it is transferred from one body to another	()
90)	Thermal energy is transferred in metals by radiation	()
91)	The transfer of heat between two bodies stops when the temperature of each is the same	()
92)	Metals such as copper and iron allow heat to travel freely through them	()
93)	Plastic often resists burning	()
94)	In electric iron heat transfers from cloth to iron	()
95)	Transfer of heat due to the movement of a liquid or gas is called radiation.	()
96)	Some material, such wood, prevent heat from being transferred.	()
97)	Holding your hands in front of a fire to warm them is an example of radiation	()
98)	When a substance changes state, the mass of the substance does not change	()
99)	cool object does not contain any energy inside it.	()
100)	We feel the heat but we cannot see it.	()
101)	Heat cannot be lost, only transferred	()
102)	When we touch the snow, we feel cold because the coldness is transferred from the snow to our hands	()





Question 4

Write what the following sentence indicate

Unit 1
Concept 1.1

1)	The building unit of life on Earth	()
2)	The membrane which allows water to enter and leave the cell.	()
3)	The living organisms that their bodies consists of many cells	()
4)	A tool used to see the components of the cell	()
5)	Living organism which contains cell wall in the structure of their cell	()
6)	The organelle responsible for controlling cell activities, such as the making cells proteins	()
7)	The gelatinous liquid inside the cells and supports the cell organelles	()
8)	The process of using oxygen to obtain chemical energy from food so that cells can continue its function.	()
9)	The powerhouses of the cell.	()
10)	A structure within the cell that has a special function	()
11)	Living organisms with more than one cell	()
12)	A group of tissues jointed together and involved in performing a particular function	()
13)	It surround the plant cell to get definite shape	()
14)	Sac like structures used for storage of nutrients, water, and waste; in plant cells.	()
15)	The organelle that package materials within the cells and transported them out of the cell.	()
16)	Organelles that helps in assembling and transporting proteins to build and repair the cell	()





17)	Cells need to be shaped like long fibers, which allows for movement	()
18)	The organelle which provide the cell with the energy it needed	()
19)	A system that made up of bones, ligaments, tendons, and cartilage	()
20)	A stain that is used to color the nucleus of the cell in blue color	()
21)	They are scientist who study cells	()
22)	A system which helps the body to move	(<div>Unit 1 Concept 1.2</div>)
23)	The organ that pumps more blood to feed the muscles required for movement	()
24)	The organ that sends instructions to the muscle	()
25)	A system consisting of mouth , stomach and small intestine	()
26)	A fluid secreted in the mouth that helps digest food	()
27)	A system of organs and tissues that helps the body breathe	()
28)	A muscle that pumps oxygenated blood to every cell.	()
29)	A muscular opening at the end of the rectum through which food waste is expelled	()
30)	The main organ of the respiratory system	()
31)	A system that converts complex nutrients into simple substances in the human body	()
32)	Cells need to be shaped like long fibers, which allows for movement	()
33)	A system that made up of bones, ligaments, tendons, and cartilage	()
34)	The cell which able to store and use energy quickly.	()





35)	Hormone produced from pancreas and regulates the amount of sugar in the blood	()
36)	The system which responsible for storing wastes and get rid of them.	()
37)	An organ plays very important role in the urinary system.	()
38)	The pattern formed by iron filling near the magnet	()
39)	Small electric charges moving in the wires in a closed electrical circuit	()
40)	The force of Earth which attracts all objects on its surface to its center	()
41)	A tool which is used to open and close the electric circuit	()
42)	A device inserted into the chest to stimulate the heart to beat regularly	()
43)	The area around the magnet in which its magnetic force appears	()
44)	The force that allows the magnet to attract some materials without making direct contact	()
45)	The materials that are attracted to the magnet.	()
46)	The materials that are not attracted to the magnet	()
47)	The device which converts mechanical energy into electrical energy	()
48)	A form of energy that is produced from generators and turbines	()
49)	The flow of electrons through an electric wire	()
50)	A closed loop which electric current can flow through	()
51)	One of the components of an electric circuit that is used to limit the flow of electricity through the circuit.	()
52)	The type of electric circuits in which all components must be connected in one loop	()

Unit 1
Concept 1.3





53)	The type of electric circuits that is found in houses and help in operating many devices at the same time.	()
54)	A device can be used to detect the flow of electric currents	()
55)	It is used to adjust the temperature inside some devices such as the refrigerator	()
56)	The materials that the electric charges can flow through	()
57)	They are materials that donot allow electric current to flow through.	()
58)	The two factors that affect the force of gravity (gravitational force).	()
<div>Unit 2 Concept 2.1</div>		
59)	It is a measure of the sum of kinetic energy of molecules and atoms of a substance.	()
60)	It is the change of matter from solid state to liquid state	()
61)	It is the change of matter from liquid state to gas state	()
62)	It is the change of matter from gas state to liquid state	()
63)	It is the change of matter from liquid state to solid state	()
64)	A process in which liquid molecules move faster and change to another state	()
65)	A process in which liquid molecules move slower and change to another state	()
66)	It is the smallest building unit of matter	()
67)	It is a group of atoms bound together	()
68)	The state of matter at which its particles have the most thermal energy	()
69)	The state of matter that has fixed volume and shape	()
70)	The process of shaping a mass of molten glass by blowing air into it through a hollow tube	()





71)	A device used to measure the temperature	()
72)	A mixture of rock, sand and water which becomes hard after it dries	()
73)	The mass of a substance doesn't change when this substance changes from one state into another	()
74)	They are materials that slow down the heat transfer through them	()
75)	It occurs when heat transfer stops between two objects reach the same temperature	()
76)	Transfer of Heat due to the movement of a liquid or gas	()
77)	Heat travels through space	()
78)	Transfer of Heat when objects that are touching.	()
79)	The materials that help transfer heat.	()
80)	When a substance changes state, the mass of the substance does not change.	()
81)	Energy transferred from a hot object to a cold object.	()
82)	Materials that resistance to the transfer of heat energy.	()
83)	Materials that allow heat to flow through them	()
84)	A condition in which the object temperature is equal to the surrounding environment	()
85)	Unit of temperature measurement	()





Question 5

Give reason for the following

Unit1
Concept 1.1

1. The mitochondria are the powerhouses of the cell.
.....
2. It is possible to distinguish between plant cells and animal cells by a microscope
.....
3. The cell membrane has the property of selectively permeable
.....
4. Plants can make their own food.
.....
5. Cats are considered as multicellular organisms
.....
6. Animals cannot make their own food.
.....
7. The plant cell has a definite shape, while the animal cell does not.
.....

Unit1
Concept 1.2

8. People whose kidneys are not working well may get harmed
.....
9. No system in the body can work alone to do a simple task.
.....
10. Skeletal muscles are considered as voluntary muscles
.....
11. Muscle cells need to be shaped like long fibers
.....
12. Some diabetics use insulin pump device
.....
13. Important of respiratory system in excretion process
.....
14. The endocrine system plays an important role in the fight or flight response.
.....
15. Undigested food becomes solid wastes inside the large intestine
.....

Unit1
Concept 1.3



16. The electric circuit is considered as a system

.....

17. Electric wires are made of copper

.....

18. The electric circuit must contain a battery

.....

19. Some electric circuits contain resistors

.....

20. When a ball is thrown into the air, it will stop moving upward and then falls down

.....

21. Electric wires are wrapped in plastic

.....

22. Electric generators have great importance in our life.

.....

23. In the parallel circuit, we can turn off or remove one light bulb while the other light bulb will remain lit

.....

24. All metals are considered as electric conductors

.....

25. When a magnet is moved rapidly back and forth inside a coil, the needle of the galvanometer connected to the coil moves rapidly

.....

26. Cobalt and nickel are considered as magnetic materials

.....

27. Gravity and magnetism are different from the other forces

.....

28. Wood and copper are not attracted to the magnet

.....

29. Particles of steam have higher thermal energy than particles of water

.....

30. Ice melts when it is put in a hot cooking pan.

.....

Unit2
Concept 2.1





31. Evaporation and condensation are two opposite processes

.....

32. Food coloring takes less time to spread out in the hot water than in cold water

.....

Unit2
Concept 2.2

33. You feel heat, when you touch a metal spoon placed in a hot cup of tea

.....

34. Meteorologists must understand convection and radiation?

.....

35. A metal doorknob feels more than the wooden door, even though they are both the same temperature

.....

36. Hot dinner plates cool when placed on the dining table.

.....

37. Cookware is made of aluminum

.....

38. We do not feel the thermal energy in cold objects.

.....

Question 6

What happen when

Unit 1
Concept 1.1

1. There is no cell membrane.

.....

2. Too much water enters the cell.

.....

3. The microscope is not discovered.

.....

4. There is no nucleus inside the cell.

.....

5. There is no Cytoplasm inside the cell.

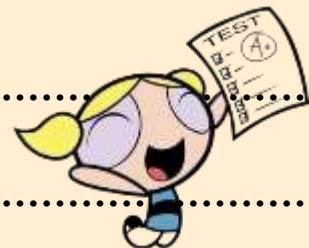
.....

6. There are no mitochondria inside the cell.

.....

7. There is no vacuole in the plant cell.

.....





8. There is no chloroplast in the plant cell.

.....

9. There is no endoplasmic reticulum in the plant cell

.....

10. Muscle contraction and relaxation

Unit 1
Concept 1.2

.....

11. Diaphragm muscle contracts

.....

12. Heart muscle contracts and relaxes.

.....

13. faced with threat or danger to heartbeats

.....

14. There is no muscular system in the human body

.....

15. Circulatory system cannot transmit the nutrients to the nerve cells

.....

16. Aluminum foil is used to wrap electric wires

Unit 1
Concept 1.3

.....

17. A patient has a slow or irregular heartbeats.

.....

18. A magnet is moved rapidly inside a coil of wire in a circuit containing galvanometer

.....

19. Electric circuits in houses are connected in series

.....

20. People have diabetes

.....

21. Large magnets spin at a high speed, around coiled wires.

.....

22. The switch is turned on in the electric circuit

.....

23. The distance between an object and Earth's center increases

.....

24. Put the iron nail at the 0 cm of the ruler and put the magnet at the other end of the ruler

.....





25. the distance between objects and the center of the Earth, decreases

Unit2
Concept 2.1

26. The state of glass when it is heated at very high temperatures

27. You hold a piece of frozen chocolate in your hand. (According to transfer of heat)

28. You touch a hot cup of tea. (According to transfer of heat).

29. You heat a piece of butter. (According to change of state).

30. The speed of molecules of a matter when it is heated

31. Bridges if engineers don't use expansion joints in their design

32. The level of alcohol inside a thermometer if we put it in hot water

33. The level of alcohol inside a thermometer if we put it in cold water

34. The spaces between molecules of a matter if we heat it.

35. The size of an inflated balloon if it is placed in hot weather.

36. The volume of matter when it is cooled

37. The mass of a piece of butter after melting it

Unit2
Concept 2.2

38. Molecules' movement of a hotter substance after mixing it with a cooler substance.

39. you lift your face to the sun ?

40. weight an ice cube then heat it.(due to the mass off ice cube)

41. Pick up a hot pot with a metal handle



42. The iron handle was made of metal.

43. A lizard stands on a hot rock

44. Increase in the temperature of a body.

Question 7

Cross the odd word

1)	Human-Fish-Plant-Bacteria	.....
2)	Urine - Oxygen gas - Carbon dioxide - Sweat	.....
3)	Plastic - Copper - Iron – Aluminum	.....
4)	Air-Copper - Wood - Glass	.....
5)	Oil - Milk - Iron – Vinegar	.....
6)	Conduction-Convection - Friction - Radiation	.....

Question 8

Various questions

1. Look at the opposite figures, then answer the following questions

This figure represents Label the diagram

1.
2.
3.
4.





2. Look at the opposite figures, then answer the following questions This figure representssystem

1.
2.
3.
4.



3. Look at the opposite figures, then answer the following questions This figure represents

1.
2.



4. Look at the opposite figures, then answer the following questions this figure representssystem

1.
2.



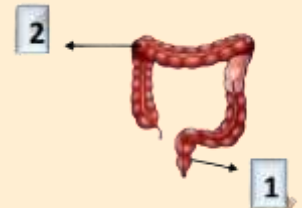
5. Look at the opposite figures, then answer the following questions

- The heart is from thesystem
- What happens to the heart when the human body faced to danger?



6. Look at the opposite figures, then answer the following questions

- 1- The number (1) indicates.....
- 2- The number (2) indicates
- 3- write function of number (2)



7. Look at the opposite figures, then answer the following questions

- 1- Muscle number (.....) is a relaxed muscle.
- 2- Muscle number(.....) is a contracted muscle



8. classify the following materials into magnetic materials and non-magnetic materials in the table





(plastic spoon - piece of glass- copper wire - iron nail)

magnetic materials	non-magnetic materials
.....

9. Look at the following figures, then answer

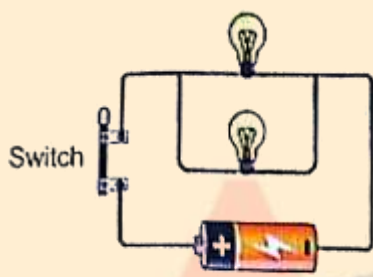


Figure (A)

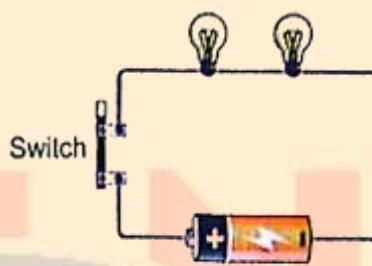


Figure (B)

a. Choose:

1. Which of these figures is a series circuit?.....

(a) **Figure (A)**(b) **Figure (B)**

2. Which of these figures is a parallel circuit?.....

(a) **Figure (A)**(b) **Figure (B)**

b. Put (✓) or (X):

1) If we remove a lamp from the circuit in figure (A), the
other lamp will still be lit

2) If the switch in figure (B) is replaced by a metallic paper clip, all lamps will turn off

10. Look at the opposite figure, then answer:

- Classify the following materials into materials that will close the circuit and others will not close it?

And giving reason?

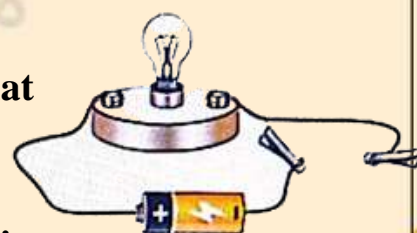
(Iron nail - Plastic spoon - Piece of rubber - Metallic spoon - Piece of wood - Metallic key)

1) The materials which will close the circuit:

-
- The reason:
-

2) The materials which will not close the circuit

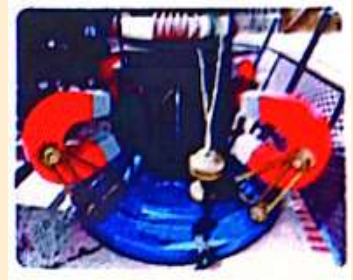
-





- The reason
-

11. Look at the opposite figure, then answer:



1. This device is called (.....)
 2. This device consists of (.....) and (.....)
 3. The idea of work of this device is changing (.....) energy into (.....) energy.
 4. This device is used in (.....) and (.....)
12. Look at the opposite figure, then answer the questions :

a. Label the figure

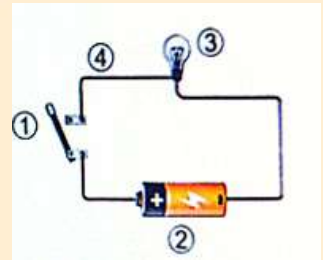
(1)	.....	(2)	.....
(3)	.....	(4)	.....

b. What is the function of components number 1 and 2?

- Component 1:
- Component 2:

c. What happens if component number 1 is closed?

-



13. Look at the opposite picture, then choose the correct answer

1) In this picture, glass changes from..... state tostate.

(a)	liquid - solid
(b)	liquid-gas
(c)	solid - liquid



2) The main energy on which the manufacture of glassware depends on is the energy

(a)	thermal	(b)	chemical	(c)	sound
-----	---------	-----	----------	-----	-------

3) When the piece of glass which is found in this picture is cooled, the glass returns back into itsstate.

(a)	Solid	(b)	Liquid	(c)	gas
-----	-------	-----	--------	-----	-----

Pilot test (1)

First question: A-Choose the correct Answer

1-A living organism grow and reproduce by increasing..... the of its body cells





First question: A-Choose the correct Answer

1-A living organism grow and reproduce by increasing..... the of its body cells

- | | |
|------------|------------|
| (a) size | (b) number |
| (c) volume | (d) length |

2-.....allow water which is necessary for life to enter the cell.

- | | |
|------------------|-------------------|
| (a) nucleus | (b) cell membrane |
| (c) mitochondria | (d) cytoplasm |

3- Objects with more thermal energy have..... kinetic energy.

- | | |
|--------------|----------|
| (a) more | (b) less |
| (c) the same | (d) no |

4..... is the transfer of heat due to the movement of molecules in a liquid or gas.

- | | |
|---------------|----------------|
| (a) radiation | (b) conduction |
| (c) freezing | (d) convection |

B. Describe the following city structures as cell structure

1- City hall as

2- Electric power station as

Second question :A-Put(✓) or (x)

- 1) Neck muscles are from voluntary muscles
- 2) Nephrons are microscopic filters that remove harmful substance from body
- 3) Melting point is the temperature at which liquid matter changes into solid
- 4) Iron is example for materials that resists the transfer of heat energy

B- Mention the function of:

Generator.

Third question: - A- Complete the following sentences using the words between brackets

(Electron- Fixed-kidneys -Condensation)

1. The In the urinary system purify the blood.
2. is Small electric charges moving in the wires in a closed electrical circuit.
3. Matter in the liquid state has..... ... Volume
4.is the change of matter from gaseous state to liquid state by cooling,

B-Cross out the odd word:

Molecules spread out - Spaces increase-Expansion – Contraction





Pilot test (2)

First question: A-complete the following

1. Theis the component of the cell that allow water to enter and exit the cell
2. The body sends more to the muscle and brain when the rate of heart beats increases
3. To adjust the temperature inside some devices as fridge, is used
4. Gold and copper are considered frommaterials as they do not attracted to the magnet

B-What happened if:

1. Absence of expansion joints in the designed bridges

Second question :A-put (✓) or (✗)

- 1) Heat transfers between two objects that have the same temperature
- 2) Mitochondria provide the cell with the needed energy
- 3) The electric devices in houses are connected in series
- 4) The muscle that helps in moving the eyes is a voluntary

B-Write the scientific term

- 5) The movement of charged particles through a conducting wires

Third question: - A-choose the correct answer

1. All of the followings are helping in excretion process except
 - (a) Skin
 - (b) Lungs
 - (c) Urinary system
 - (d) Digestive system
2. The magnetic field can be formed when the electric current flows in wires around.
 - (a) battery
 - (b) Glass core
 - (c) Air
 - (d) Metal core
3. The object that has less thermal energy has.....energy
 - (a) less
 - (b) same
 - (c) more
 - (d) zero
4. Heat energy transfers through solids by
 - (a) radiation
 - (b) convection
 - (c) conduction
 - (d) a and c

B-Some electric circuits contain resistor





First question: (A) Choose the correct answer:

1.....is a material that cannot allow electric current to flow through

- | | |
|-------------|------------|
| (a) Iron | (b) Copper |
| (c) Plastic | (d) Cobalt |

2- Your leg moves due to contraction and relaxation of.....connected to the bones of leg.

- | | |
|-----------|-------------|
| (a) hairs | (b) toes |
| (c) skin | (d) muscles |

3- The body of simple living organisms as bacteria consists of.....

- | | |
|-------------------|----------------------|
| (a) one cell only | (b) different cells. |
| (c) Many cells | (d) ten cells only. |

4-Heat is transferred through copper and iron by

- | | |
|-------------------------------|----------------|
| (a) radiation | (b) conduction |
| (c) conduction and convection | (d) convection |

(B)What happens if: The speed of molecules of a matter when it is heated

Second question : (A)Put (✓)or (×):

- 1) Chloroplasts are found in the cells of banana plant leaves
- 2) Digestive system digests food without the help of nervous system
- 3) The two kidneys remove waste materials from body
- 4) The measuring unit of heat is called calories

(B) Give the reason: Matter may change from one state to another.

.....

Third three: (A) write the scientific term:

- 1) A device that is used to see the structure of living organisms cells
- 2) A disease that is resulting from the disorder of secreting insulin hormone by pancreas
- 3) It is the decrease of the size of a substance due to decreasing of its temperature
- 4) They are materials that slow down the heat transfer through them

(B) Cross the odd word: Nickel-Cobalt-Steel – Copper



Pilot test (4)First question: A. Choose from column (B) what suits it in column (A)

(A)	(B)
1. Digestion process	a) is the process in which excretory system collects the waste materials produced by cells and removes them from the body.
2. Urination process	b) is the process of converting the complex food into simpler substance that the body can use for energy and growth.
3. Excretion process	c) is the process of taking oxygen gas and expelling carbon dioxide gas
4. Respiration process	d) is the process of expelling urine outside the body.
1.	2.
	3.
	4.

B. Give a reason for the following

- The electric circuit contains a switch

Second question : A. choose the correct answer:

1-Al the following muscles are considered as voluntary muscles, except muscles of

(a) Forearm

(b) Neck

(c) Heart

(d) upper arm

2..... are used to stop the flow of electricity.

(a) Resistors

(b) Electric conductors

(c) Electric insulators

(d) Galvanometer

3-Endocrine system secretes.....that control the body temperature and the blood pressure

(a) Hormones

(b) Blood

(c) Water

(d) urea

4-Water changes into ice by

(a) Melting

(b) Freezing

(c) Evaporation

(d) Condensation

B. Write the scientific term of the following:

-It is the organ which filter the blood from wastes and form urine |..

Third question :A. Complete the following sentences using these words:

(Gases-conduction - insulin-cell wall)

1-The plant cell is surrounded by.....

.....have variable shape and volume.

3-Heat transfer through iron by.....

4.....hormone is secreted by pancreas.

B. Cross the odd word:-

conduction-convection-friction- radiation



Pilot test (5)First question: A- Choose the correct answer

1- The Plant cell is characterized from the animal cell by the presence of Chloroplasts and.....

- (a) Nucleus (b) Cell Wall
(c) Cytoplasm (d) Mitochondria

2- The Organ that secretes Insulin hormone for regulating the level of Sugar is

- (a) Pancreas (b) Stomach
(c) Liver (d) Heart

3- By heating water its thermal energy...

- (a) decreases (b) at the same
(c) increases (d) doesn't change

4- Change of matter from Liquid state to the gas state is...

- (a) Freezing (b) Condensation
(c) Melting (d) Evaporation

B- Give reason For the flowing:

The Importance of the Generators.

Second question: A- Choose from column (B) what suits it in column (A)

(A)	(B)
1- Plastic	a- Way of transferring heat through air and Space
2- Cobalt	b- Is the measuring unit of heat.
3- Radiation	c- Is a bad conductor of electricity
4- Calorie	d- is a magnetic material
1.	2. 3. 4.

B- What happens if the Nephrons of the Kidneys Not Work Properly.?

Third question : (A)Put (✓)or (✗):

- The electric devices in house are connected in parallel circuits
- Solid have variable shape and volume
- The magnetism is repulsion force only
- The thermal energy is transfer through water by convection

B-Mention the importance (function) of the chloroplasts in the plant cell?





Mid-Term

بنك الاسئلة



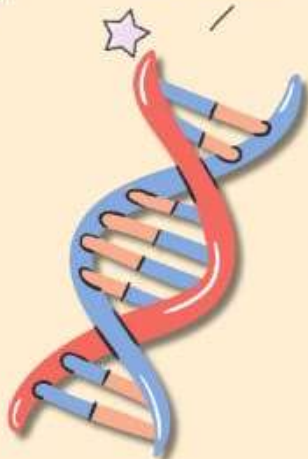
Science

مراجعات النخبة

مراجعات النخبة



Answer form



Mrs/Menna Hussein





Question 1

choose the correct answer

1. cell membrane	31. Circulatory	61. Nikel
2. energy	32. The systems work together in an integrated system	62. Switch
3. Bacteria	33. decrease	63. Plastic
4. Oxygen – food	34. brain	64. Atoms
5. Cell	35. nervous, circulatory and musculoskeletal	65. Soup
6. The cell	36. tissue	66. water-milk
7. cell wall	37. stomach	67. glass
8. Bacterial cells	38. glycogen	68. temperature – state
9. number	39. hormones	69. thermal
10. bird's egg	40. small intestine	70. a hot object to a cold object
11. unicellular	41. relax	71. Kinetic
12. Cell membrane	42. Neck	72. increases - increases
13. muscle cells	43. increase	73. solid-liquid
14. systems	44. Feces	74. liquid - gas
15. microscope	45. Microscopic unit that blood and remove waste from the body	75. condensation - evaporation
16. coverslip	46. urinary	76. gas
17. bacteria	47. skin	77. ice
18. plant	48. urinary	78. melting - evaporation
19. Cytoplasm	49. switch	79. More
20. Cell wall	50. wood	80. Metal
21. Bones	51. Resistor	81. Convection
22. Mitochondria	52. Plastic	82. Moon
23. Golgi apparatus	53. Mechanical	83. Iron
24. Chloroplast	54. Iron	84. radiation
25. Nucleus	55. mass	85. conduction only
26. Plant cell	56. distance and mass	86. weather





27. chloroplasts	57. rubber	87. flexible fabric
28. Long	58. open the circuit	88. iron
29. Heart	59. all the previous answers.	89. it is a mixture of iron and other elements.
30. Nervous	60. (1,3,4)	

Question 2

Complete the following sentences

1. number	2. bacteria	3. one
4. Robert hock	5. cellulose	6. photosynthesis
7. exoskeletal	8. chlorophyll	9. methylene blue dyes(satins)
10. heart	11. brain	12. eye
13. circulatory system	14. contraction	15. liver and muscle
16. cellulose , shape	17. chlorophyll	18. sunlight, photosynthesis
19. cell wall	20. bones	21. acid, enzymes
22. sap vacuole, vacuoles	23. cardiac , involuntary	24. hormones
25. relaxes	26. muscles	27. insulin
28. digestive	29. Gravitational ,decrease	30. repulsion , attraction
31. center, gravitational	33. magnetic , non-magnetic	34. electrical
32. mass		
35. electric circuit	36. switch	37. conductors, copper, aluminum
38. electric Shock, water	39. insulators , plastic , wood	40. insulator , conductor
41. Parallel	42. pacemaker	43. battery , motherboard
44. plastic	45. increase	46. electricity
47. mass	48. wind	49. iron
50. electrical	51. magnetic field	52. wires



53. atoms	54. gases , thermal	55. kinetic
56. different	57. freezing , melting	58. solid , gas
59. decreases , increases	60. solid , gas	61. increase
62. solid	63. faster	66. Iron and Nickel
	64. liquid, gas	
	65. Touching each other	
67. Cooler	68. Doesn't change	69. Plastic
70. Conduction ,convection and radiation	71. Temperature difference and surface area	72. Thermal conductors
73. Equal	74. Kinetic(motion)	

Question 3

Put (true) or (false) answers

1. ✖	2. ✓	3. ✖
4. ✖	5. ✓	6. ✖
7. ✓	8. ✓	9. ✖
10. ✖	11. ✓	12. ✖
13. ✓	14. ✖	15. ✖
16. ✓	18. ✓	19. ✖
17. ✖		
20. ✓	21. ✖	22. ✓
23. ✖	24. ✖	25. ✓
26. ✓	27. ✖	29. ✖
	28. ✓	
30. ✓	31. ✓	32. ✖
33. ✖	34. ✓	35. ✓
36. ✖	37. ✓	38. ✓
39. ✖	40. ✖	41. ✖
42. ✓	43. ✓	44. ✖
45. ✖	46. ✖	47. ✓
48. ✖	49. ✓	50. ✓
51. ✖	52. ✓	53. ✓



54. ✗	55. ✗	56. ✓
57. ✗	58. ✗	59. ✓
60. ✓	61. ✗	62. ✓
63. ✓	64. ✓	65. ✓
66. ✗	67. ✓	68. ✗
69. ✓	70. ✓	71. ✗
72. ✗	73. ✓	74. ✓
75. ✗	76. ✗	77. ✓
78. ✓	79. ✗	80. ✓
81. ✗	82. ✓	83. ✗
84. ✓	85. ✓	86. ✗
87. ✓	88. ✗	89. ✗
90. ✗	91. ✓	92. ✓
93. ✓	94. ✗	95. ✗
96. ✓	97. ✓	98. ✓
99. ✗	100. ✓	101. ✓
102. ✗		

Question 4

Write what the following sentence indicate

1. (the cell)	2. (cell membrane)	3. (Animals ,plant and, humans)
4. (microscope)	5. (plants)	6. (nucleus)
7. (cytoplasm)	8. (cellular respiration)	9. (mitochondria)
10. (organelles)	11. (multicellular)	12. (organs)
13. (cell wall)	14. (sap vacuole)	15. (Golgi apparatus)
16. (endoplasmic reticulum)	17. (muscle cells)	18. (mitochondria)
19. (musculoskeletal system)	20. (methylene blue)	21. (cell biologists)
22. (musculoskeletal system)	23. (Heart)	24. (Brain)
25. (Digestive system)	26. (saliva)	27. (Respiratory system)
28. (Heart)	29. (Anus)	30. (Two lungs)





31. (Digestive system)	32. Muscle cells	33. Musculoskeletal
34. Muscle cell	35. insulin hormones	36. Excretory system
37. (Kidney)		
38. Magnetic field	39. Electrons	40. Gravity
41. Switch	42. Pacemaker	43. Magnetic field
44. Magnetism	45. Magnetic materials	46. Non-magnetic materials
47. Generator	48. Electrical energy	49. Electric current
50. Electric circuit	51. Resistor	52. Series circuit
53. Parallel circuit	54. Galvanometer	55. Thermostat
56. Electric conductors	57. Electric insulators	58. Mass, distance
59. Thermal energy	60. Melting process	61. Evaporation process
62. Condensation process	63. Freezing process	64. Evaporation process
65. Condensation process	66. Atom	67. Molecule
68. Gas state	69. Solid state	70. Glass blowing
71. Thermometer	72. Concrete	73. The law of conservation of mass
74. Thermal insulators	77. Radiation	78. Conduction
75. Thermal equilibrium		
76. Convection		
79. Thermal conductors	80. the law of conservation of mass	81. Heat(thermal energy)
82. Thermal insulators	83. Thermal conduction	84. Thermal equilibrium
85. Calorie (Degree)		

Question 5

Give reason for the following

1. Because mitochondria provide the cell with its needed energy
2. Because plant cells have cell wall and chloroplasts and sap vacuole that not found in animal's cells
3. Because it controls the movement of substance enter and leave the cell
4. Because the plant has chloroplast that help it in photosynthesis process
5. Because the cat body consist of many cells
6. Because animals cell doesn't have chloroplast
7. Because the plant cell has cell wall, but animals not contain





8. Because their kidneys cannot filter the blood from waste materials
9. Because all system depends on each other to do its function and all of them work together
10. Because skeletal muscles are muscles can control their movement
11. Because it helps body movement by contraction and relaxation of muscle
12. To inject their bodies with insulin automatically
13. Because it gets rid of carbon dioxide gas as waste materials out of body
14. Because the endocrine system produces hormones to help the body prepare to respond to danger
15. Because large intestine absorbs most of water from the undigested food
16. Because electric circuit is a path for electricity that consists of many components that work together as one system
17. Because copper is an electric conductor that allow electric current to flow through
18. Because the battery is the source of electricity in the electric circuit
19. Because resistors are used to slow the flow of electrons through an electric circuit to avoid the damage of its components
20. Due to the gravity force of Earth
21. Because plastic is electric insulator doesn't allow electricity to pass through
22. Because, generator change Mechanical energy into electrical energy which use to lightening house and operating device
23. Because in parallel circuit the electric current can flow along different branches
24. Because metals allow electric current to flow through them
25. Because the electric current is produced inside coil
26. Because they attract to the magnets
27. Because ,Gravity is pulling force only but magnetism is pulling and pushing force
28. Because wood and copper are non-magnetic materials
29. Because particles of gas move very fast so they have the most thermal energy
30. Because thermal energy transferred from hot cooking pan to ice
31. Because in evaporation matter change from liquid to gas and in condensation the matter change from gas to liquid





32. Because the hot water has more thermal energy, so molecules of hot water have more kinetic energy and move faster
33. Because the metal spoon is a thermal conductor material that allow heat to transfer through it
34. Because it helps them predict the weather
35. Because, our body always generates thermal energy and thermal energy transfer through metal fast which is thermal conductor
36. Because heat transfer from hot dinner plates to the cold air around it
37. Because, Aluminum is good conductor of heat
38. Because, heat transfer from hotter object to colder object

Question 6

What happen when

- 1) The cell cannot control the substance that enter or leave it
- 2) The cell swell until it bursts
- 3) They could not discover more information about the tiny particles like the cell
- 4) The cell would not produce proteins and cannot make cell division
- 5) The organelles would not have a supporting medium to float on it and would not do their function
- 6) The cell would not produce energy through cellular respiration and will die
- 7) The cell would not store water, nutrients, waste materials
- 8) The cell cannot make its own food through photosynthesis process
- 9) The cell cannot collect and transport proteins inside the cell and cannot repair it
- 10) The muscle will make movement
- 11) The lungs take in the air rich in oxygen gas
- 12) The heart will pump blood through the all body system
- 13) The heart begins to beat quickly so the heartbeats increasing and heart pumps more blood to the muscles and blood pressure increase
- 14) The body cannot do the function of movement
- 15) The nerve cells cannot do their function
- 16) The human will get electric shock when hold the electric wire Bec. aluminum is electric conductor
- 17) The heart muscle will not beat at regular intervals for patient





- 18) The needle of the galvanometer moved rapidly to both sides so the generated electric current increase
- 19) The electric current can flow along one path only and when one light bulb blows out the other light bulb will turn off
- 20) They must monitor the level of sugar in blood by take shots of insulin or use insulin pump
- 21) The spinning magnets generate electrical charges on the coiled wires
- 22) The electric current flow through the circuit
- 23) The gravitational force will decreases
- 24) the magnet cannot attract the iron nail
- 25) The gravitational force will increases
- 26) it changes from solid state into liquid state
- 27) Heat transfers from my hand to the chocolate so it melts
- 28) Heat transfers from the cup to my hand
- 29) The piece of butter changes from solid state into liquid state.
- 30) the speed of molecules will increase
- 31) Buckling of bridges occurs as a result of expansion at high temperatures
- 32) The level of alcohol will rise up
- 33) The level of alcohol will go down
- 34) The spaces will increase
- 35) The inflated balloon size will increase.
- 36) The matter volume will decrease
- 37) The mass does not change
- 38) Molecules of hotter substance will move slower after mixing
- 39) You will feel the heat of the sun due to transfer heat by radiation
- 40) The mass doesn't change
- 41) Our hand will hurt due to metal is thermal conductors
- 42) Our hand will hurt when touch it due to metal is god conductors of heat
- 43) The skin of lizard absorbs thermal energy that release from rock
- 44) The kinetic energy of its molecules increases this can lead to expansion and

Question 6

Cross the odd word

- | | |
|------------|--------------|
| 1-bacteria | 2-oxygen gas |
| 3-plastic | 4-copper |
| 5-iron | 6-friction |





Question 7

Various questions

1. Look at the opposite figures, then answer the following questions

This figure represents animal cell Label the diagram

1. Nucleus
2. cytoplasm
3. mitochondria
4. cell membrane

2. Look at the opposite figures, then answer the following questions This figure represents digestive system

1. stomach
2. large intestine
3. small intestine
4. rectum

3. Look at the opposite figures, then answer the following questions This figure represents microscope

1. eyepiece
2. objective lenses

4. Look at the opposite figures, then answer the following questions this figure represents respiratory system

1. two lungs
2. diaphragm muscle

5. Look at the opposite figures, then answer the following questions

1- The heart is from the circulatory system

2- The heart begins to beat quickly so the heartbeats increasing and heart pumps more blood to the muscles and blood pressure increase

6. Look at the opposite figures, then answer the following questions

1- The number (1) indicates Rectum

2- The number (2) indicates large intestine

3- absorb water from food to become solid waste





7. Look at the opposite figures, then answer the following questions

1- Muscle number (1) is a relaxed muscle.

1- Muscle number (2) is a contracted muscle

8. classify the following materials into magnetic materials and non-magnetic materials in the table

magnetic materials	non-magnetic materials
<u>-iron nail</u>	<u>-wooden clip</u> <u>-plastic spoon</u> <u>copper wire</u>

9. Look at the following figures, then answer

A. Choose:

1. Figure (B)

2. Figure (A)

B. Put (✓) or (X): 1-✓ 2-X

10. Look at the opposite figure, then answer:

1. iron nail-metallic spoon-metallic key

• because they are electric. conductors

2. plastic. spoon-piece of rubber piece of wood

• because they are electric insulator

11. Look at the opposite figure, then answer:

1. This device is called (electric generator)

2. This device consists of (large magnets) and (coiled wires)

3. The idea of work of this device is changing (mechanical) energy into (electrical) energy.

4. This device is used in (lighting houses) and (operating electrical devices.)

12. Look at the opposite figure, then answer the questions :

A. Label the figure

(1) <u>Switch</u>	(2) <u>Battery</u>
(3) <u>Light bulb</u>	(4) <u>Metal wire.</u>

B. What is the function of components number 1 and 2?

• Component 1: It is used to open and close the circuit.

• Component 2: It is the source of electricity in the circuit.

C. The electric current flows through the circuit, and the light bulb will light up





13. Look at the opposite picture, then choose the correct answer

1. (c) solid – liquid
2. (a) thermal
3. (a) Solid



ف يوم هتعرّف
سبب كل حاجة
مصلتك
وصدقني هتكون
مُمتن جدًا،
اختيارات ربنا هي
افضل سيناريو كان
ممكن يحصل





First question: A-Choose the correct Answer

1. (b)number
2. (b)cell membrane
3. (a)more
4. (d)convection

B. Describe the following city structures as cell structure

1- Nucleus

2- Mitochondria

Second question A-Put(✓) or (x)

- 1-✓
- 2-✓
- 3-x
- 4-x

B- Mention the function of:

It used to change mechanical energy into electrical energy

Third question:- A- Complete the following sentences using the words between brackets

1. kidneys
2. Electron
3. Fixed
4. Condensation

B-Cross out the odd word:

Contraction



قد يكون لهذا التعب الذي تقش تحمله هو
الذي يغير مياتك بأكلها، سيعوضك و
سيراضيك و سيَجبر لخاصرك .





First question: A-complete the following

1. Cell membrane
2. Blood
3. Thermostat
4. Magnetic

B-What happened if:

Buckling of bridges occurs as a result of expansion at high temperatures

Second question :A-put (✓) or (×)

- 1-x
- 2-✓
- 3-x
- 4-x

B-Write the scientific term

Electric current

Third question: - A-choose the correct answer

1. (d)Digestive system
2. (d)Metal core
3. (a)less
4. (c)conduction

B-Some electric circuits contain resistor

Rubber, Plastic and wood

يأت بها
الشمس
كما تمنها قلبك





First question: (A) Choose the correct answer:

1. (c)Plastic
2. (d)muscles
3. (a)one cell only
4. (b)conduction

(B)What happens if: The speed of molecules will increase

Second question : (A)Put (✓)or (✗):

- 1-✓
- 2-✗
- 3-✓
- 4-✓

(B) Give the reason: Due to the change in temperature

Third question: (A) write the scientific term:

- 1-Microscope
- 2-Diabetic disease
- 3-contraction
- 4- isolators materials

(B) Cross the odd word: Copper



مش هيجيلك اللي انت
عايزه بس هيجيلك اللي انت
تستحقه.. مش هتوصل ليا
تتعب، هتوصل ليا تكون
جافوز.. رينا مش هيبعتك
اللى بتتهناه، هيبعتك اللي
انت محتاجه.. احنا بنعمل اللي
علينا بس رينا عالم اعني
وفين وإزاي وقد اية اللي
لأزمك عشان تبقى سعيد، ف
اطهن ومتشلتش لهم ثاني.





First question: A. Choose from column (B) what suits it in column (A)

1-b 2-d 3-a 4-c

B. Give a reason for the following

Because it helps in opening and closing the circuit

Second question : A. choose the correct answer:

1-(c)Heart

2-(a)Resistors

3-(a)Hormones

4-(b)Freezing

B. Write the scientific term of the following: Kidney

Third question :A. Complete the following sentences using these words:

1- Gases

3- conduction

4 -insulin

B. Cross the odd word: -friction

ولا بقى عندى طاقة

ولا عندى شغف

ولا عندى خلق

معنديش إلا خدود





First question: A- Choose the correct answer

- 1- (b)Cell Wall
- 2- (a)Pancreas
- 3- (c)increases
- 4- (d)Evaporation

B- Give reason For the flowing:

Because, generator change Mechanical energy into electrical energy which use to lightening house and operating device

Second question: A- Choose from column (B) what suits it in column (A)

1-c 2-d 3-a 4-b

B- What happens if The blood doesn't filter from waste materials

Third question : (A)Put (✓)or (×):

- 1-✓
- 2-×
- 3-×
- 4-✓

B- It contain chlorophyll that absorb light energy from the sun to make photosynthesis process

مَنْ لَا يَفْهَمُ رِسَالَتِكَ الْكَبِيرَى
فِي الْحَيَاةِ.. لَنْ يَسْتَوْعِبَ
الْخُطَوَاتِ الَّتِي تَسْبِقُهَا

